NAVSUP
NAVAL SUPPLY SYSTEMS COMMAND

Serial Number Tracking COMNAVAIRPAC

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

Ready. Resourceful. Responsive!

LCDR Matt Mullins
NAVSUP 4B1I
27 AUG 2002

Outline

- Overview/Review
- Automatic Identification Technology
- Aviation Rollout
- Demonstrations
- System Status
- System Capabilities
- Interfaces
- Initiatives/Future
- Summary

Overview

viation Maintenance-Supply Review

" In March 1998, the Aviation-Maintenance Supply Readiness Study Group was formed to examine AVDLR concerns and recommended specific actions to reduce overall maintenance and supply costs, increase readiness and provide systemic improvements to support Naval Aviation of the 21st Century."

Serial Number Tracking: AMSR Issue 16LT(a)

18 Issues:

1. Readiness Metrics
2. Customer Focused Metrics
3. ILS Metric Reporting Improvements
4. Data Integrity Improvement
5. Moving ILS Away From Planeside
6. ILS Health Maintenance
7. Core Depot Workload
8. Av. Configuration Management
9. A/C and Engine Shortfalls
10. LECP Management
11. Broad Arrow Management
12. Cannibalization
13. RBS Enhancement
14. Consumable Material Shortfalls
15. O&I Maintenance Manning
16. **AVDLR Cost and Reliability**
17. Flying Hour Program
18. Aviation Maintenance - Supply Funding

Overview

Definition: ***Closed-loop, cradle-to-grave tracking maintenance critical, serialized components, pro asset visibility and material status, and enabled automatic identification technology***

Major Benefits :

Maintenance

- Identify Maintenance Deficiencies
- Accurately Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Los
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

System Concept

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

Three components:

- ⇨ Data Collection
  - ✓ **Enabled by AIT: Bar code/contact memory button**
- ⇨ Data Storage
  - ✓ **Maintenance/supply database changes**
- ⇨ Data Retrieval
  - ✓ **SNT System**
    - ➢ **Web-enabled: www.snt.navsup.navy.mil**
    - ➢ **Direct Access**

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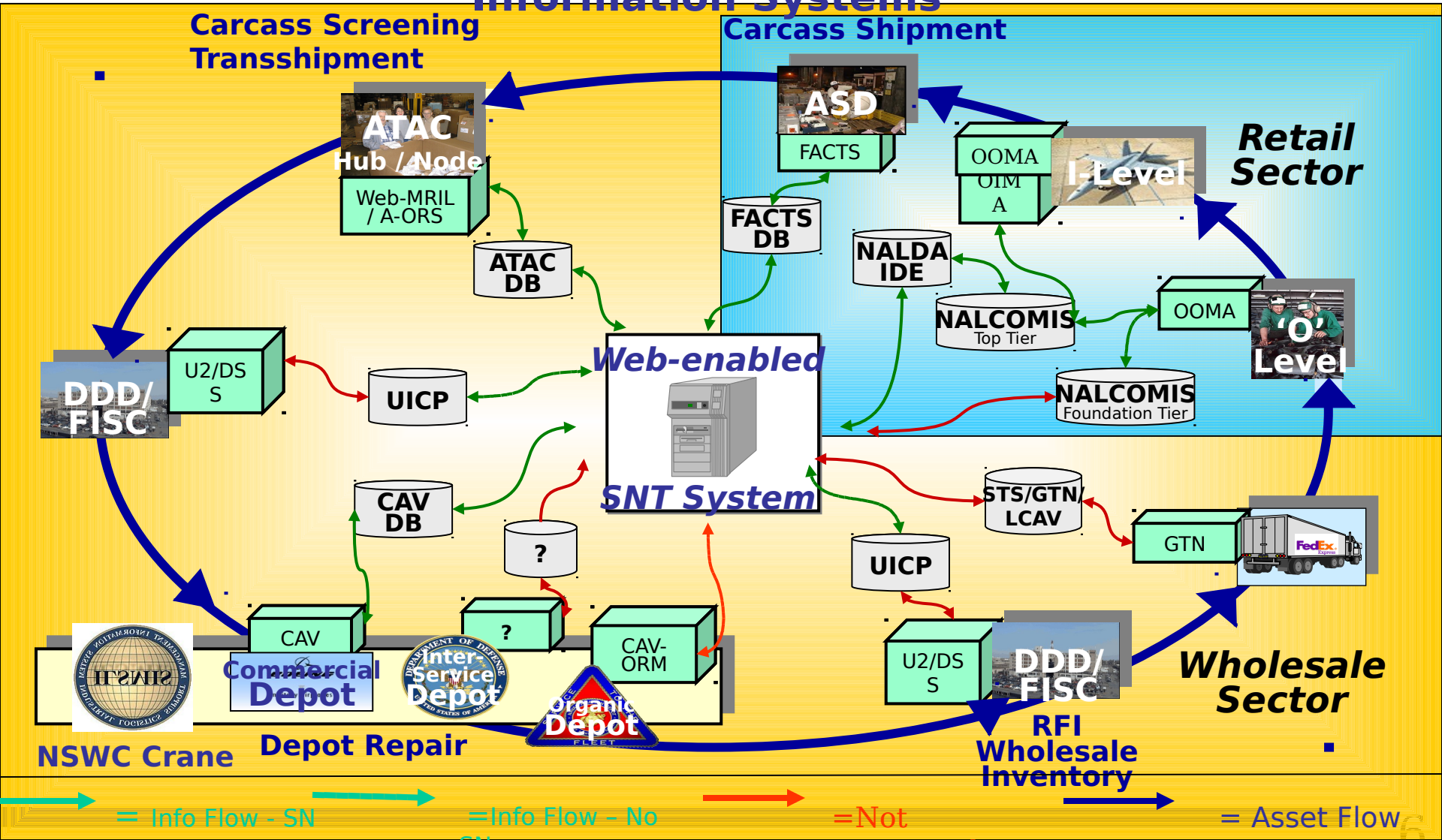
Aviation Asset/Information Flow

UNITED STATES NAVY SERIAL NUMBER TRACKING

SNT

Overview

Information Systems



CMB/Bar Code

P/N 50-100-01
S/N 0152
MFR K0656

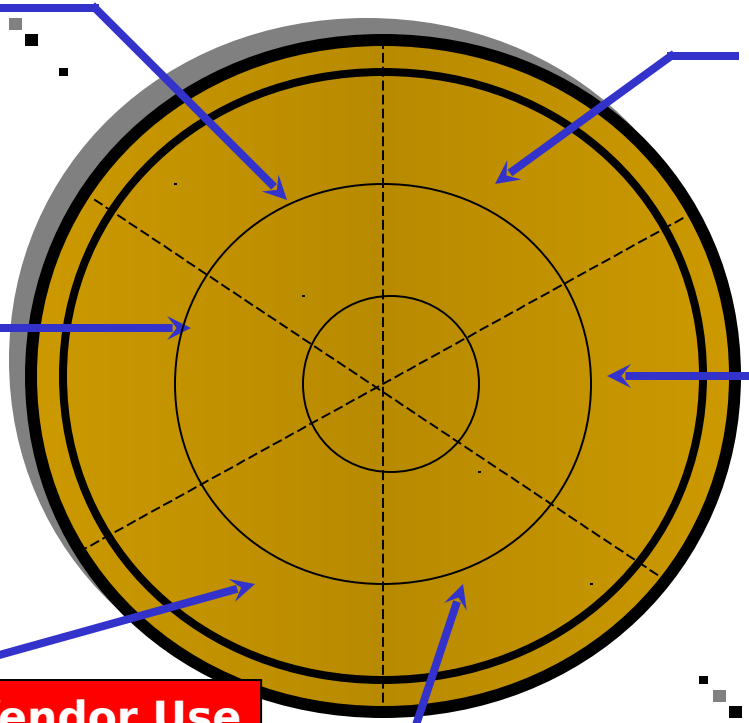
AIT

Nameplate Data

Computer, Air Data CPU-175/A
P/N 50-100-01 SERNO 0152
MFR K0656 CONTR F33657-85C-0025

Scheduled Removal Component Card

Contact Memory Button CMB



Maintenance History*

Warranty Data*

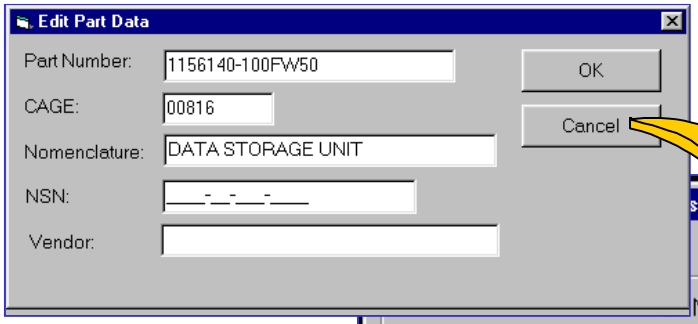
Available for Vendor Use

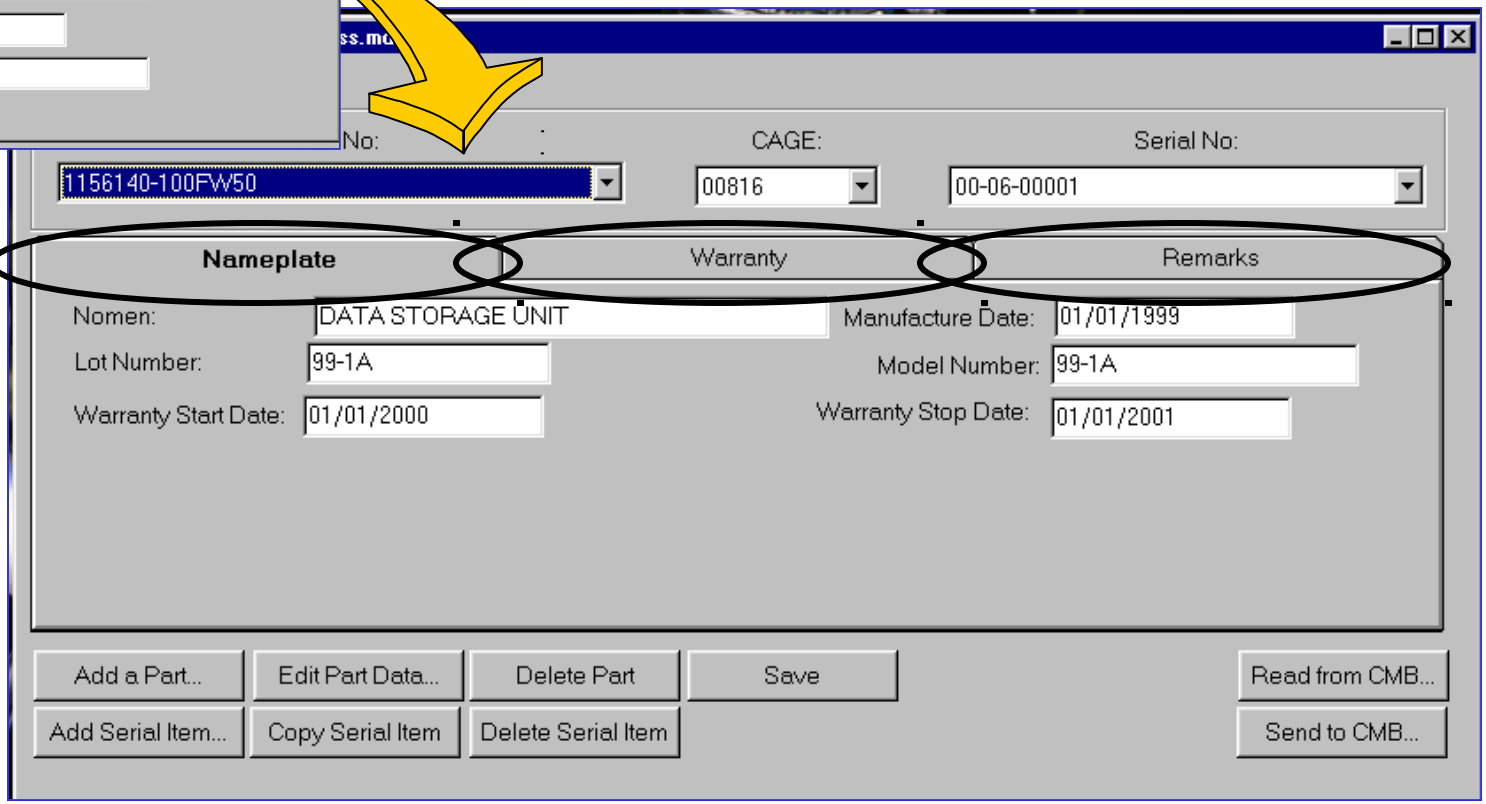
Available for Future Navy Use

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

Serial Number Tracking Software

AIT





Nameplate

SUPPLY - AVIATION 5 Year Plan

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Rollout

MH-53E	46	170	9,775	$152,783.25	$272,412.00	$136,000.00	$605,932.55
CH-53E	164	170	34,850	$544,705.50	$817,236.00	$136,000.00	$1,597,820.10
CH-53D	44	104	5,720	$89,403.60	$272,412.00	$83,200.00	$486,995.50
All H-60	342	300	128,250	$2,004,547.50	$3,268,944.00	$240,000.00	$5,665,423.90
S-3B	111	400	55,500	$867,465.00	$708,271.20	$320,000.00	$1,712,510.98
EA-6B	16	469	9,380	$146,609.40	$163,447.20	$375,200.00	$706,871.12
MH-1W	194	196	47,530	$742,893.90	$898,959.60	$156,800.00	$1,757,972.56
HH/UH-1N	126	132	20,790	$324,947.70	$599,306.40	$105,600.00	$1,029,922.86
[illegible]	230	70	20,125	$314,553.75	$926,200.80	$56,000.00	$1,383,940.57
CH/HH/UH-46	79	70	6,913	$108,042.38	$435,859.20	$56,000.00	$599,552.66
EA-6B	124	144	22,320	$348,861.60	$1,035,165.60	$115,200.00	$1,659,147.94
MV/CV/HV-22	458	203	116,218	$1,816,479.53	$3,922,732.80	$162,400.00	$6,254,890.39
AV-8	172	921	198,015	$3,094,974.45	$871,718.40	$736,800.00	$4,899,087.53
F-14A/B/D	193	200	48,250	$754,147.50	$871,718.40	$160,000.00	$1,940,564.86
P-3's	264	75	24,750	$386,842.50	$1,797,919.20	$60,000.00	$2,452,987.68
Cargo	295	175	64,531	$1,008,623.44	$2,724,120.00	$140,000.00	$4,297,527.69
Trainers	515	129	83,044	$1,297,973.81	$817,236.00	$103,200.00	$2,369,150.46
E-2C	75	145	13,594	$212,470.31	$1,525,507.20	$116,000.00	$1,969,874.10
C-2A	38	145	6,888	$107,651.63	$217,929.60	$116,000.00	$463,500.85
F-18ABCD	745	206	186,250	$2,911,087.50	$4,794,451.20	$160,000.00	$8,327,383.34
F-18EF	548	240	164,400	$2,569,572.00	$2,179,296.00	$192,000.00	$5,296,021.20
Misc Support							$2,806,000.00
Total			1,267,091	$19,804,636.24	$29,120,842.80	$3,726,400.00	$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = $58,211,346

NAVSUP - pays Recurring Engineering (Approx $49M)

NAVAIR - pays Non-Recurring Engineering (Approx $9M)

Demonstrations

H-60/HSL-40:

- Demonstrate O-OMA AIT interfaces
- Squadron hardware requirements/dat
- Track 25 marked components
- Demo completed June 2000

SCADC

- SNT included in PBL Contract
- Loading of Serial Number into CAV
- BAE Assistance

SNT Functionality in Commercial Depot

Demonstrations

- **SQQ-32 SONAR:**
  - Ships selected: MCM's/MHC's
  - 13 Components Marked
  - Keyport/Ingleside/Raytheon/Shipboa
  - Objective: Retrograde Tracking

- **HOSS Camera (AN/SXY-1):**
  - NAVICP LECP
  - Contract Language and Drawing includes CMB
  - SNT in New Production Environm
  - Delivery of first cameras: NOV 2

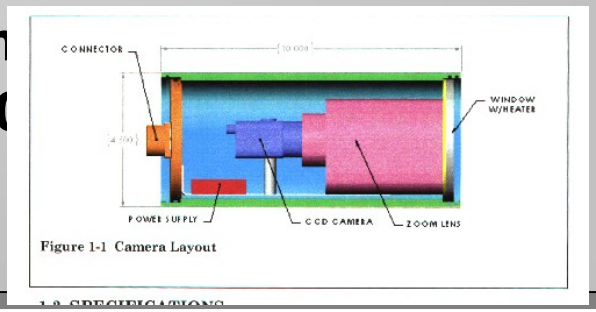


Figure 1-1 Camera Layout

Submarine Prototype

Demonstrations

- CAMS II A5 Module
- TRIDENT/SEAWOLF Applications
- Objectives
  - *Prove technology in a submarine environment*
  - *Involve NAVSEA community*
- Estimate SEP 02 Completion

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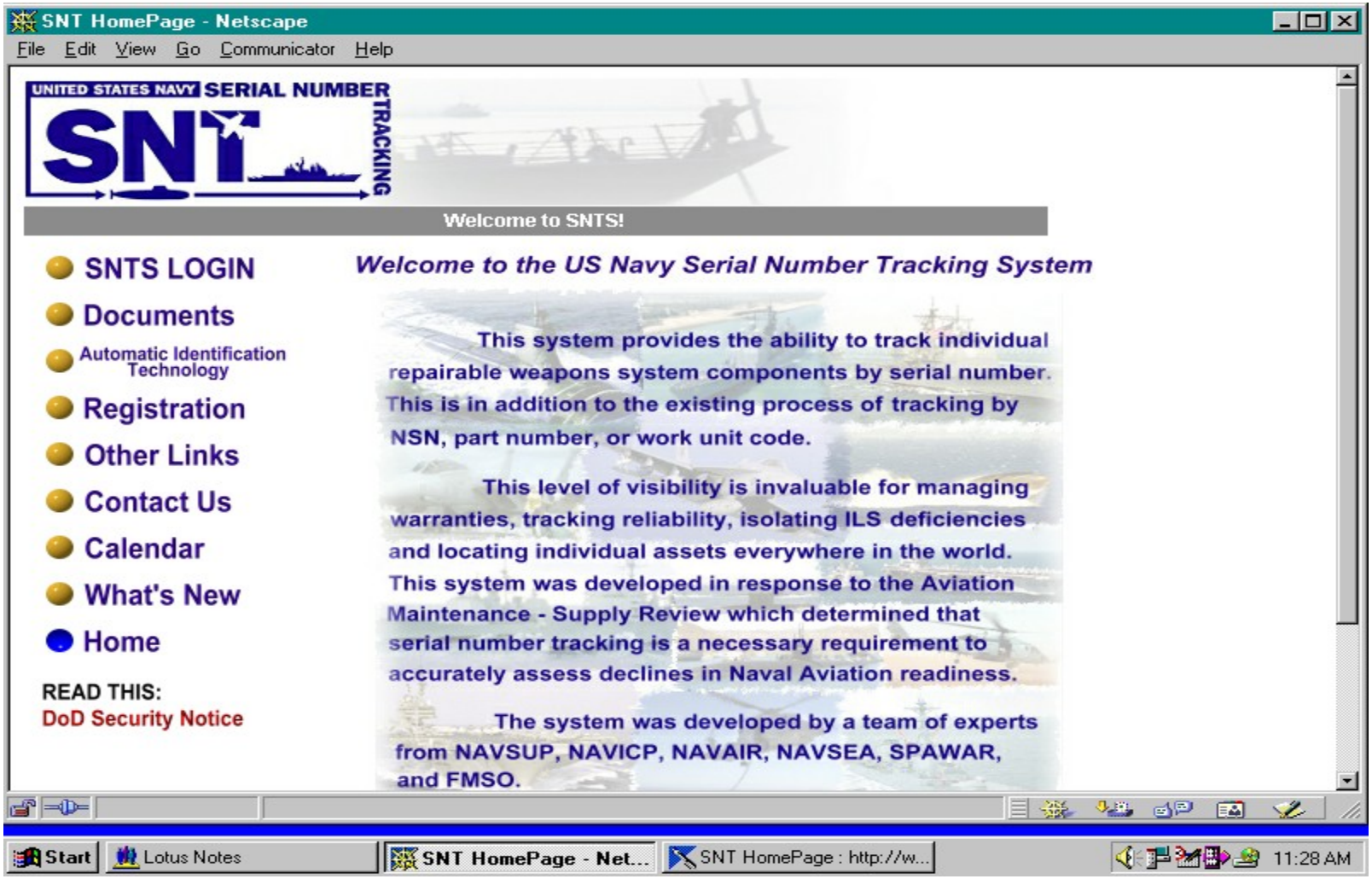
New Homepage: www.snt.navsup.navy.mil

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

System Status


SNT HomePage - Netscape
File Edit View Go Communicator Help
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Welcome to SNTS!
SNTS LOGIN
Documents
Automatic Identification Technology
Registration
Other Links
Contact Us
Calendar
What's New
Home
READ THIS:
DoD Security Notice
Welcome to the US Navy Serial Number Tracking System
This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.
This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.
The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.
Start
Lotus Notes
SNT HomePage - Net...
SNT HomePage : http://w...
11:28 AM

SNT System Status

- **Database Access:**
  - ***NALCOMIS, LMDSS, DMDS, FACTS, ATAC, CAV, R-RAM, UICP-P, UICP-M, FIMARS***
- **Queries available: Asset visibility (Retrograde, IMA, Inventory),**
- **Warranty, Aviation Maintenance (Maint History)**
- **Recent Enhancements:**
  - ***Carcass Watches/Automatic email capability***
  - ***Other Decision Support Reports***
  - ***Link to UICP database***

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NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

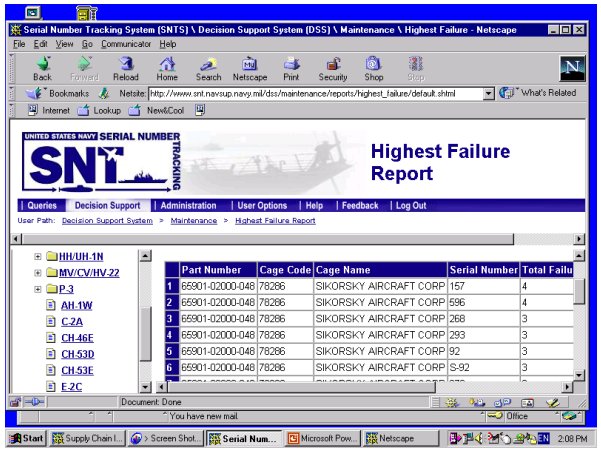
SNT WEB PAGE QUERY RESULTS

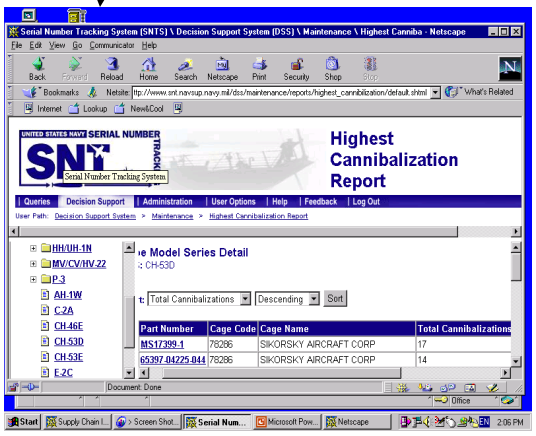
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

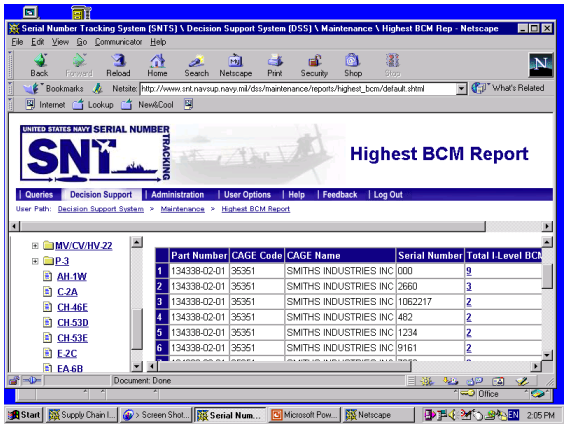
Capabilities

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports







SNT WEB PAGE QUERY RESULTS

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

SNTS \ Asset Visibility \ Retrograde - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Capabilities

Back Forward Stop Refresh Home Search Favorites History Print Full Screen

Address https://www.snt.navsup.navy.mil/queries/AssetVisibility/Retrograde/default.shtml Go

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Retrograde

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out

Asset Visibility | Aviation Engineering | Aviation Maintenance | Inventory | Shipboard Engineering | Shipboard Maintenance | Warra

Search Criteria

Serial Number:

Document Number: R3283A2122G612

UIC:

NIIN:

Lead TCN:

Printer Friendly Version

	Leg 1	Leg 2
Document Number	R3283A2122G612	R3283A2122G612
NIIN	014406604	014406604
Serial Number	DVP0079	
Quantity	1	1
Condition Code	F	F
Shipped From	R3283A Navy Support Facility Diego Garcia	N3054B ATAC AGENT YOKOTA AIR BASE
Date Shipped	07-May-2002	22-May-2002
LTCN	R3283A2122G612XXX	R3283A2119D306XXX
Transportation Mode	F - Air, Air Mobility Command	F - Air, Air Mobility Command
Ship To	N62649	

Internet

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RELIABILITY

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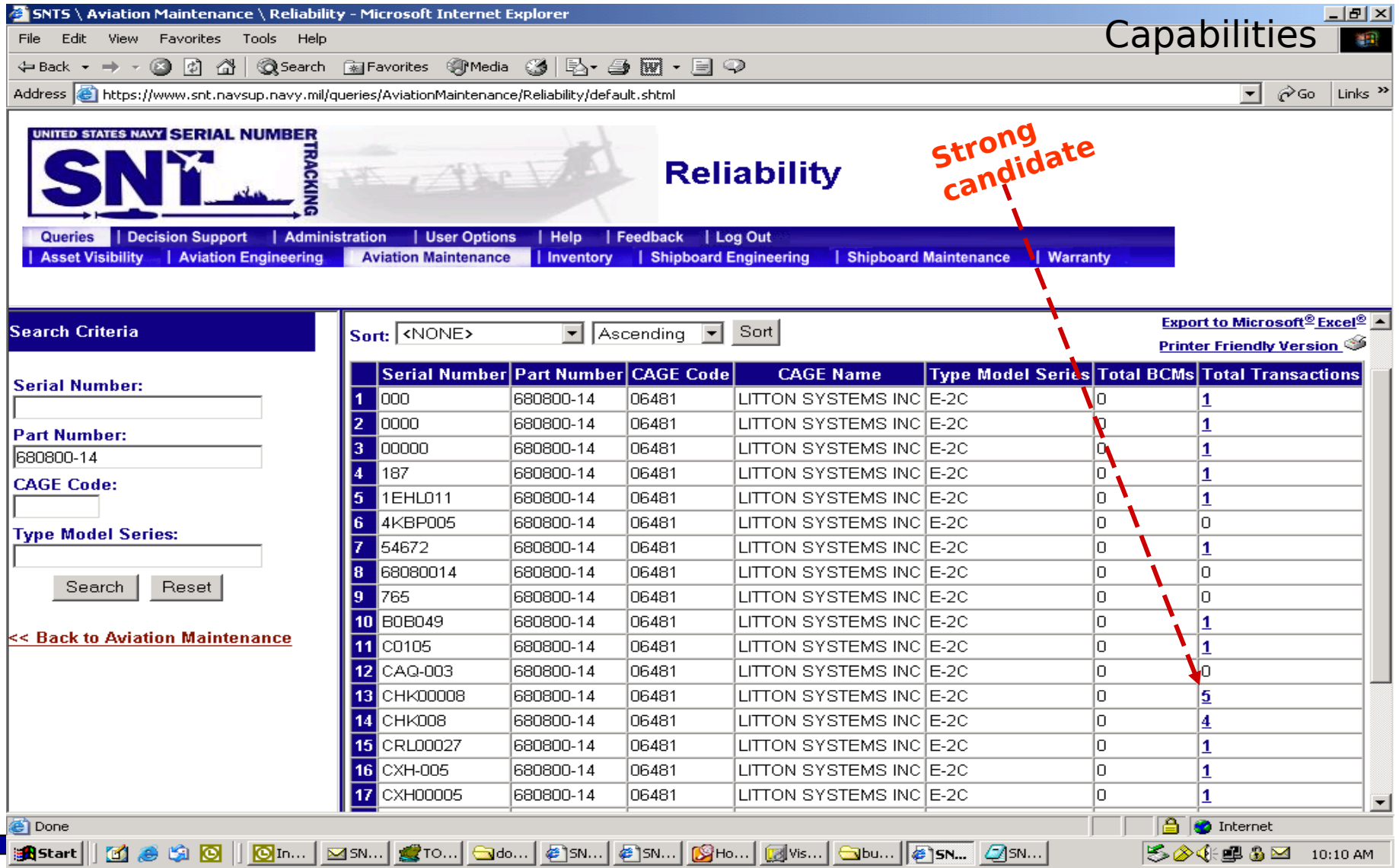
Capabilities



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1	000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
2	0000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
3	00000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
4	187	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
5	1EHL011	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
6	4KBP005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
7	54672	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
8	68080014	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
9	765	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
10	B0B049	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
11	C0105	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
12	CAQ-003	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
13	CHK00008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	5
14	CHK008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	4
15	CRL00027	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
16	CXH-005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
17	CXH00005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1

AIT Maintenance Dat Collection(OOMA)

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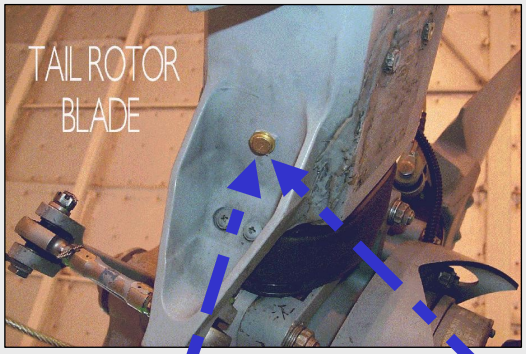
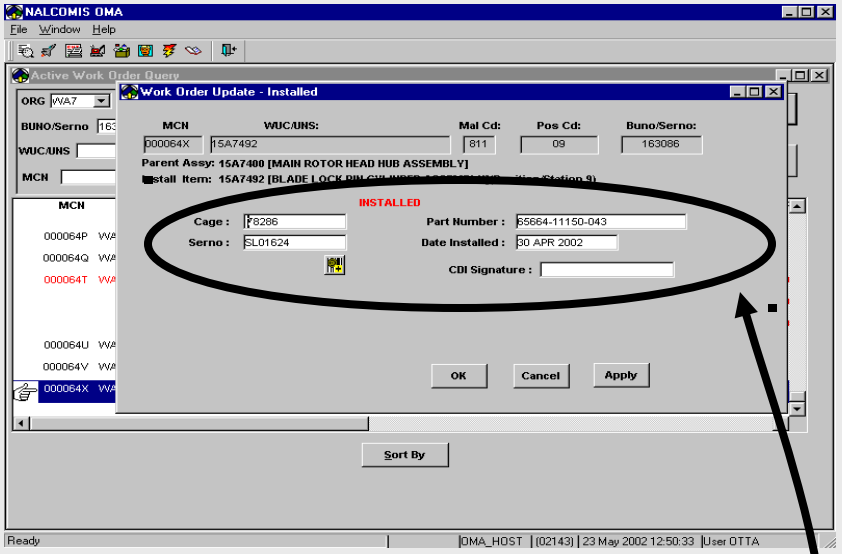
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Interfaces





Information System
OOMA

Button
Readers

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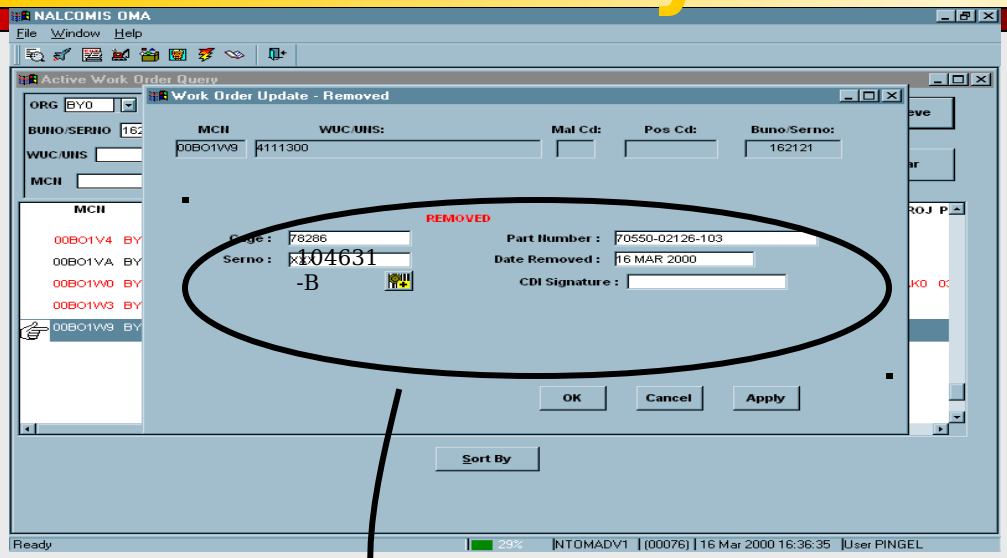
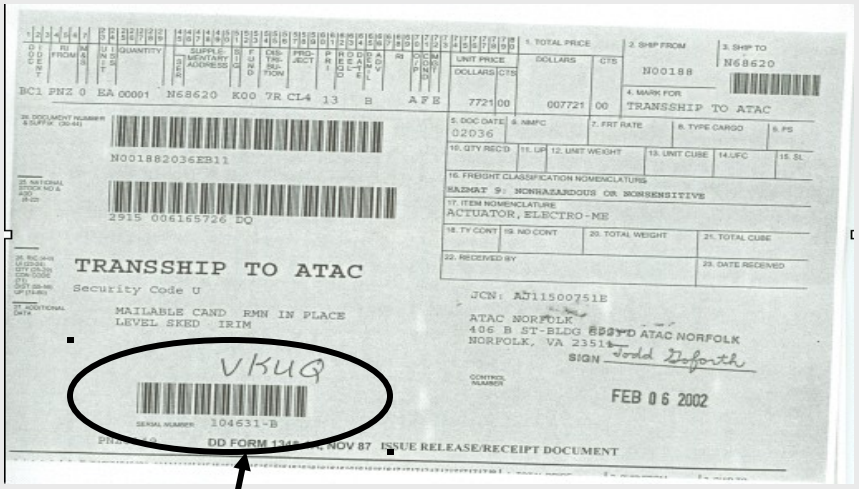
UNITED STATES NAVY SERIAL NUMBER TRACKING

SNT

Retrograde Cycle

Interfaces





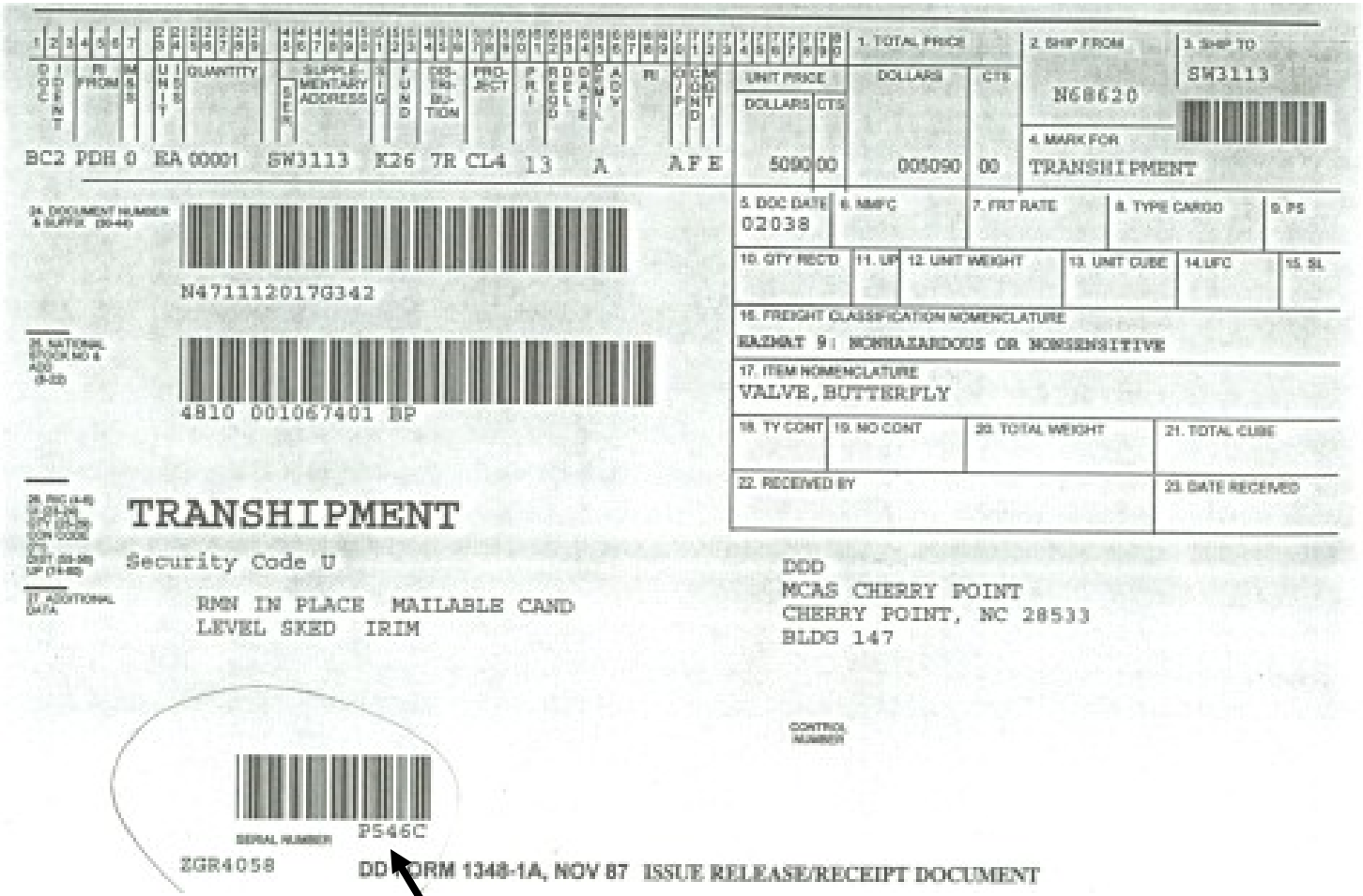
Output From OOMA

Information System OOMA/OIMA/ R-Supply

Creates Invoice W/ SN

Retrograde From ATAC

Other Interfaces



Serial Number

SAP/AIT Maintenance Data Collection

NAVAL SUPPLY SYSTEMS COMMAND HEADQUARTERS

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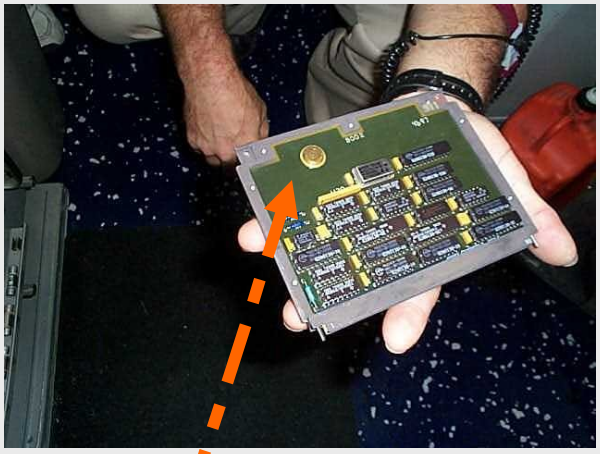
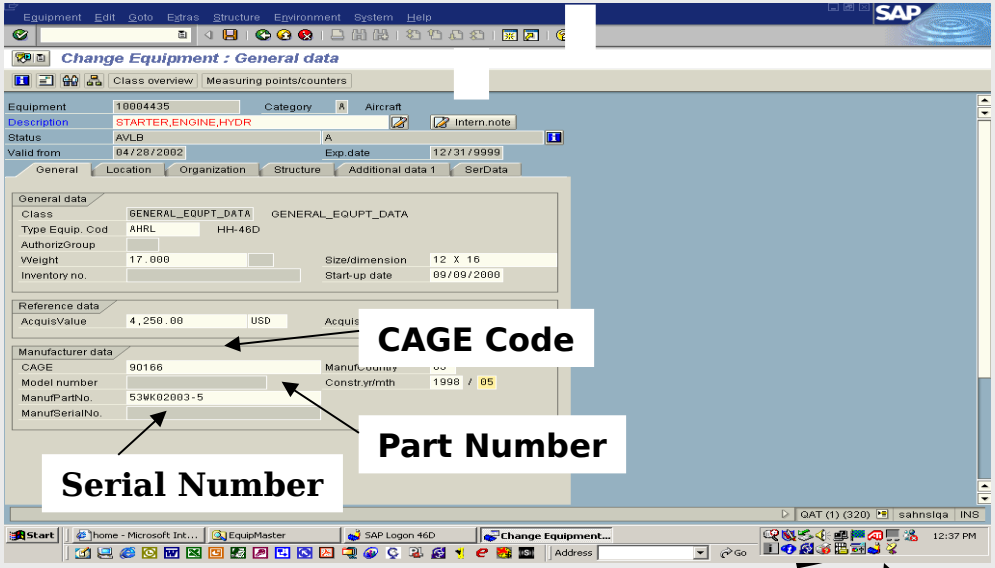
SAP Interface





Button Readers

SAP 2.0 Plant Maintenance Equipment master

Wholesale System Reporting S/N

Future

Effective JAN 03
DSS Reports SN of Selected Items For Receipts/ Issues

Web-enabled

SNT System

SNT WEB Site Accesses Navy Repository

Navy Repository

To Navy Repository

SNT INITIATIVES

Future

- **ICP Implementation**
  - ***PBL Contracts***
  - ***Warranty***
  - ***AIT/Packaging***
- **SMART Transportation Solution**
- **LCAV and other databases to access**
- **Marking of Wholesale Stock (DD) items - groundwork laid**
  - ***Currently marking part at ASD Norfolk and DD Cherry Point***

SUMMARY

- SNT Project Prototypes Completed
- NAVAIR Revised Implementation Plan in February 02
  - *Parts marking by TMS underway*
- SNTS Web Application on line
- System capabilities improving
- Interfaces - working
- NAVSUP standing by to assist: Team effort with NAVAIR

Points of Contact

http://www.snt.navsup.navy.m

Project Manager

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